Error #	Description	Error / Cause / Remedy	Digital signals	WD250/WD290: Alarm resolution
100	Door is Open	Switch (S1), relay (K1) or DS potentiometer value (R1) is not within range or has gone out of range while program was running. Input (S110), (R1) is monitored only while program is running.	S110	**Door Switch:** S1 is defective or magnet on door defective – OR Wiring problem check for cable break or loose plug connections **Door Relay:** K1 is defective **Linear Drive:** If door is unlocked linear drive gears may have jumped – Replace Drive OR potentiometer is out of adjustment – Readjust doors
101	Door does not open	If the opening process with DS motor (M35) takes longer than 16 s until the switch (S112) opens or the potentiometer value (R1) is closed, the controller terminates the process with error display. Input (S112), (R1) is monitored during the opening process. WD-290-09 may not fault on opening	S112	**Door Motor:** DS: M35 & REL35 open & REL36 close Contactor activates: Check 3Ø voltage contactor, Check fuses F11, F12, Check door motor capacitor Contactor doesn't activate: Check 24Vac, Replace contactor **Door belts:** Door drive belts intact? Replace belts **Check output LED's on Control PCB**: Check wiring, Replace Control PCB **Motor drives:** Check upper S1/lower limit S112 switches. Check wiring **Linear Drive:** If door is lock and not responding to output from Linear board - Replace Drive OR potentiometer is out of adjustment – Readjust doors **Fuses on ESR-**1: Replace blown fuse **Red light on ESR-**1: Break in the tape switch wiring
102	Door does not close	If the closure process with DS motor (M35) takes longer than 16 s until the upper switch (S1/K1) closes or the potentiometer value (R1) is closed, the controller terminates the process with error display. Input (S110), (R1) is monitored during the closure.	S110	**Door motor:** DS: M35 & REL35 open & REL36 close Contactor activates: Check 3Ø voltage contactor, Check fuses F11, F12, Check door motor capacitor Contactor doesn't activate: Check 24Vac, Replace contactor **Door belts:** Door drive belts intact? Replace belts **Door Alignment:** Check that the door is level. A door that is slanted can have intermittent 107 because the door magnet may not activate S113 or S2 properly. **Check output LED's on Control PCB**: Check wiring, Replace Control PCB **Motor drives:** Check upper S1/lower limit S112 switches. Check wiring **Linear Drive:** If door is unlocked and not responding to output from Linear board - Replace Drive OR potentiometer is out of adjustment – Readjust doors **Door drift past S112:** Due to door motor wear door may not have stopped where S112 is still providing S110 input. The door will fault as soon as the 16s timer has expired AND the door closed switch is pressed – Replace door motor **Fuses on ESR-**1: Replace blown fuse **Red light on ESR-**1: Break in the tape switch wiring

103	Object in Door	DS Safety switch actuator (S209) has triggered. If during the closure process the safety switch actuator opens Relay ESR1, the controller terminates the closure process with error display and reopens the door (M35). Input (S209) is monitored only during the closure process.	S209	**Door tape safety switch:** DS: ESR-1 & K1 **Obstruction in door track:** Clear obstruction **Check Tape Switch Relay PCB ESR-1:** Red LED: tape switch disconnected, check wiring/plug, replace tape switch Yellow LED: tape switch tripped: If no obstruction, replace switch Green LED: tape switch normal
105	Door is Open	Switch (S2), relay (K2) or CS potentiometer value (R2) is not within range or has gone out of range while program was running. Input (S111), (R2) is monitored only while program is running. Cause and remedy see Error 100	S111	**Door Switch:** S2 is defective or magnet on door defective – OR Wiring problem check for cable break or loose plug connections **Door Relay:** K2 is defective **Linear Drive:** If door is unlocked linear drive gears may have jumped – Replace Drive OR potentiometer is out of adjustment – Readjust doors
106	Door does not open	If the opening process with CS motor (M38) takes longer than 16 s until the switch (S113) opens or the potentiometer value (R2) is closed, the controller terminates the process with error display. Input (S113), (R2) is monitored during the closure. WD-290-09 may not fault on opening	S113	**Door Motor:** CS: M37 & REL37 open & REL38 close Contactor activates: Check 3Ø voltage contactor, Check fuses F11, F12, Check door motor capacitor Contactor doesn't activate: Check 24Vac, Replace contactor **Door Belts:** Door drive belts intact? Replace belts **Check output LED's on Control PCB**: Check wiring, Replace Control PCB **Motor drives:** Check upper S2/lower limit S113 switches. Check wiring **Linear Drive:** If door is lock and not responding to output from Linear board - Replace Drive OR potentiometer is out of adjustment – Readjust doors **Fuses on ESR-**2: Replace blown fuse **Red light on ESR-**2: Break in the tape switch wiring

107	Door does not close	If the closure process with CS motor (M38) takes longer than 16 s until the upper switch (S2/K2) closes or the potentiometer value (R2) is closed, the controller terminates the process with error display. Input (S111), (R2) is monitored during the closure.	S111	**Door drive | Door belts:** CS: M37 & REL37 open & REL38 close Contactor activates: Check 3Ø voltage contactor, Check fuses F11, F12, Check door motor capacitor Contactor doesn't activate: Check 24Vac, Replace contactor **Door belts:** Door drive belts intact? Replace belts. **Door Alignment:** Check that the door is level. A door that is slanted can have intermittent 107 because the door magnet may not activate S113 or S2 properly. **Check output LED's on Control PCB** : Check wiring, Replace Control PCB **Motor drives***:* Check upper/lower limit switches. Check wiring **Linear Drive:** If door is unlocked and not responding to output from Linear board - Replace Drive OR potentiometer is out of adjustment – Readjust doors **Door drift past S113:** Due to door motor wear door may not have stopped where S113 is still providing S111 input. The door will fault as soon as the 16s timer has expired AND the door closed switch is pressed – Replace door motor **Fuses on ESR-**2: Replace blown fuse **Red light on ESR-**2: Break in the tape switch wiring
108	Object in Door	CS Safety switch actuator (S210) has been triggered. If during the closure process the safety switch actuator opens Relay ESR1, the controller terminates the closure process with error display and reopens the door (M38). Input (S210) is monitored only during the closure process.	S210	**Door tape safety switch:** CS: ESR-2 & K2 **Obstruction in door track:** Clear obstruction. **Check Tape Switch Relay PCB ESR-2:** Red LED: tape switch disconnected, check wiring/plug, replace tape switch Yellow LED: tape switch tripped: If no obstruction, replace switch Green LED: tape switch normal
109	No Communication	Communication between processor and door panel PCB (IPD) for the door locking has been disrupted.		**Door Pressure Print:** Defective – Replace, **Fuse**: Located on print board for door locking **Wiring issue:** – Check wires and connectors for proper seating, **Coding switch**: correct position -8
110	No Pressure	Pressure in washing system has dropped below minimum. If Switch (S211) is still open during the program 90s after the filling phase, the controller terminates the current program. Input (S211) is monitored only with Utilities (M1-M4), (M7-M9), 90s after the program time and below 85°C. Monitoring is inactive above 85°C.	S211	**Pressure Switch S211:** Wash pump circulates water. Level sensor ok: Check for activation of S211 - check for clogged hose or replace switch **Pump:** Check rotation of pump, Check K15 and fuses F6, F7, F8 **Foam:** If foam is present flush chamber until foam is gone. Check that the proper detergent is being used, non-foaming detergent is recommended **Transformers:** Verify T1 and T2 operational

112	System Leakage	Leakage in the device. If Switch (SB) in the floor pan closes for longer than 2s, the controller terminates the current program with error display. Input (SB) is monitored in "Program Ready" -Mode as well.	SB	**Washer Leak:** Correct all leaks from the machine **External Leak:** Leak from floor drain or utilities above the unit – correct external leak Dry floor pan when leak source has been fixed
113	Screen Clogged	If Switch (S109) opens for more than 4s with 35 mm water column, the controller terminates the current program with error display. Input for Switch (S109) is monitored during Function (F1) in the program cycle with water (M1-M4), (M7) and (M9), and also in "Program Ready" -Mode	S109 S211	**Foam:** If foam is present flush chamber until foam is gone. Check that the proper detergent is being used, non-foaming detergent is recommended **Clogged screen in chamber:** Clean screen **Air balance:** Pressure imbalanced caused by either too much suction from the exhaust or too much back pressure from the exhaust **Differential Pressure Switch:** If none of the above is the cause the pressure switch (S109) may be defective – replace switch. **Overfilling:** Sump is overfilling due to a bad S211. The excessive water level is placing the 35mm water column on the S109 switch. This triggers the 113 alarm before the 147 alarm can activate. Check that S211 activates when the pump is running.
114	Tank Disinfection	Re-cooling of the disinfected final rinse water is not possible. Failure to reach the target temperature of the final rinse water. The input "DI tank code SC" is open in Program Step M7. Program Step M7 is missing in Program Step M8.	SC, K55	
118	Program Recognition (WD-290)	When automatic program recognition is activated, the switches are checked for function. If one of the switches (S101- S103) and (S106- S108) will not close, an error is displayed. When the DS door is open, all switches are monitored. When Switch (S105) has closed, Switches (S101-S103), (S106) and (S107) must have closed at least once beforehand, otherwise an error is displayed.	S101, S102, S103, S105, S106, S107, S108	**Rack recognition switch:** Switch is not activating – replace **Magnets on rack are missing:** Replace magnets

121	No Water	Level sensor is defective or not connected. If the level sensor (P1) is not closed for longer than 2s (value between 0.2V and 4.5V), the controller terminates the current program with error display. The threshold values for Input (P1) are monitored during the program cycle.	L1	**Level sensor:** Faulty level sensor. Check voltage at transducer. Empty level: 0.5Vdc, Working level: minimum 1.0Vdc, dynamic reading ~ 1.7Vdc Replace sensor | Replace sensor board | Check wiring | Check power supply | Check input to control board | Replace control board
130	NTC 1 Defective	The temperature sensor in the washing chamber floor is defective or not connected (value between 0°C and 150°C). The controller terminates the current program with error display.	NTC1	**Temperature Sensors:** Steam Valve/Sump heaters activate; no change in temperature display for NTC 1: Check wiring to sensors. Replace sensors. Check Control PCB. Resistance readings: 20C = 12.490KOhm, 25C = 10.000KOhm, 30C = 8.080KOhm, 35C = 6.356KOhm, 40C = 5.331KOhm, 45C = 4.373KOhm, 50C = 3.606KOhm, 55C = 2.989KOhm, 60C = 2.949KOhm, 65C = 2.085KOhm, 70C = 1.753KOhm, 75C = 1.481KOhm
131	NTC 2 Defective	Dryer temperature sensor (NTC2) is defective or not connected.	NTC2	**Temperature Sensors:** Blowers/heaters activate; no change in temperature display: Check wiring to sensors. Replace sensors. Check Control PCB. May indicate inadequate air flow to sensor #2 in heater compartment. Check that diffuser plate in heater compartment is aligned to upper port
133	NTC 3 Defective	Temperature sensor (NTC3) is defective or not connected.	NTC3	**See error 130**
134	NTC 4 Defective	PW tank temperature sensor (NTC4) is defective or not connected.	NTC4	**See error 130**
135	NTC 5 Defective	Washing chamber floor temperature sensor (NTC5) is defective or not connected.	NTC5	**See error 130**

136	NTC 6 Defective	PW tank temperature sensor (NTC6) is defective or not connected.	NTC6	**See error 130**
140	No Purified Water to tank	PW tank float Switch (SD) is still open after 15 minutes while filling is in process. No purified water supply to tank.	SD	**DI supply:** Check with facilities maintenance for any water outages. Verify all water supply valves are turned on **DI Boiler Float Switch:** Check switch operation input SD – Replace if not sensing level change **DI Water valve:** DI water valve not opening – Replace Valve
141	No Cold Water	Failure to reach operating level with CW during the filling process. No CW supply in the washing chamber, or switch (S1, S2) open. If, in the filling process with CW (Y11), Operating Level 2 of the level sensor (P1) is not reached within 5 minutes, the controller terminates the current program with error display. Threshold monitoring: Only during the filling process until Operating Level 2 has been reached.	L1,S110, S111	**Supply and shut off valves:** Check with facilities maintenance for any water outages Verify all water supply valves are turned on **Water valves:** Water valves not opening. Activate all water valves in the service mode and verify activation/flow. Check voltage to coil & Check 24Vac power supply & Check fuses F1, F2, F9, F10 & Check wiring, connectors **Strainers:** Clogged water supply strainers. Clean **Hoses:** Check hoses for any kinks or obstructions. Melted rubber oozes out of SS braids. Hoses lying against steam hoses. Replace hose **Door Switches (DS & CS):** S1/K1 and/or S2/K2 is open – Verify switch operation, Door magnet integrity, - Replace door switch, magnet or relay K1/K2 **Level sensor:** Faulty level sensor. Check voltage at transducer. Empty level: 0.5Vdc, Working level: minimum 1.0Vdc, dynamic reading ~ 1.7Vdc Replace sensor | Replace sensor board | Check wiring | Check power supply | Check input to control board | Replace control board **Transformers:** Verify T1 and T2 operational
142	No Warm Water	Failure to reach operating level during the filling process. No warm water supply in the washing chamber, or switch (S1, S2) open. If, in the filling process with WW (Y12), Operating Level 2 of the level sensor (P1) is not reached within 5 minutes, the controller terminates the current program with error display	L1,S110, S111	**See error 141**

143	No Purified Water	Failure to reach operating level with DI water during the filling process. If, in the filling process with purified water (Y13), Operating Level 2 of the level sensor (P1) is not reached within 7 minutes, the controller terminates the current program with error display.	K13	**See error 141**
146	No Purified Water from Tank	Failure to reach operating level with pre-heated purified water (M9) from the tank during the filling process. If Operating Level 2 is not reached within 3 minutes while the filling process with pre-heated purified water (Y14) is under way, the controller terminates the current program with error display. Threshold monitoring: Threshold adjustment for pre-heated DI water supply.	K14	**See error 141** **Feed Pump: K14/M14 defective** **Leaks: System leaks for PW system**

147	Overflow Level	The maximum overflow level has been reached. If, while the circulation pump is running, the overflow level of 2.1Vdc of the level sensor (P1) is exceeded for more than 5s, the controller terminates the current process with error display. If, during a water step without active circulation pump, the static overflow level of 2.3Vdc of the level sensor (P1) is exceeded for more than 5 s, the controller terminates the current process with error display. Dynamic threshold = 2.1Vdc (with circulation pump M15). Static threshold = 2.3Vdc (without circulation pump M15).	L1, S211	**Water valves:** Water valves not closing. Water flow during standby or with door open. Replace valve(s). **Level sensor:** Check voltage at transducer or input to control board. Empty level: 0.5Vdc, Working level: minimum 1.0Vdc, dynamic reading or no change in reading. Check the transducer hose for the presence of water (indicates a hole/leak in the hose). Check hose for kinks or pinched areas. Replace sensor | Replace sensor board | Check wiring | Check input to control board | Check power supply | Replace control board **Pump pressure sensor:** Sensor S211 stays open even if pump is running | Obstructed hose or defective switch **Wash Pump:** Wash pump does not turn on – Check fuses F6,F7,F8, wiring and contactor K15 – Replace if defective **Wash Pump:** Wash pump may be wired incorrectly – Check rotation of the pump From the CS pump should rotate to the right
148	No Drainage	Empty level monitoring system detects no change of level during drainage of washing chamber. If the level does not drop to 0.7Vdc (empty level +0.2Vdc) within 3 minutes while drainage via drainage valve (Y31) or drainage pump is in process, the controller terminates the current process with error display. Threshold monitoring: Only during drainage until empty level has been reached, or for 5s after start of drainage.	K31, S211, L1	**Drain Valve:** Drain valve doesn't open. Activate valve in the service mode and verify activation/flow. Solenoid activates: Check drain boot, replace if faulty. Check voltage to coil: Check wiring & check power supply, fuses F11 F12. Check output LED on Control PCB: Replace Control PCB **Water valves:** Water valves not closing. Water flow during standby or with door open. Replace valve(s). **Level sensor:** Check voltage at transducer or input to control board. Empty level: 0.5Vdc, Working level: minimum 1.0Vdc, dynamic reading or no change in reading. Check the transducer hose for the presence of water (indicates a hole/leak in the hose). Check hose for kinks or pinched areas. Replace sensor | Replace sensor board | Check wiring | Check input to control board | Check power supply | Replace control board **Pump pressure sensor:** Sensor S211 stays closed even if pump is off | Obstructed hose or defective switch **Wash Pump:** Wash pump does not turn off - Check contactor K15 – Replace if defective

149	Level Too Low	Water level has dropped below minimum operating level during washing process. Loss of water in the washing phase. If the level drops below the minimum level of 1.0Vdc for 15s in the course of the washing cycle, the controller terminates the current process with display. Threshold monitoring: Only during the heating phase.	L1	**Drain valve:** Drain valve not closing. If possible, check floor drain for water flow during wash. If drain boot suspected, do not dismantle drain valve until replacement part available. Replace drain boot **Level sensor:** Faulty level sensor (P1). Check voltage at transducer. Empty level: 0.5Vdc, Working level: minimum 1.0Vdc, dynamic reading. Replace sensor | Replace sensor board | Check wiring | Check power supply | Check input to control board | Replace control board **Air balance:** Pressure imbalanced caused by either too much suction from the exhaust or too much back pressure from the exhaust – Balance air system **Exhaust Flap:** Remains open or stuck closed – Repair or replace
150	Level Too High	Maximum level (water above edge of door) exceeded. Unwanted entry of water into the washing chamber. If the level of 3.2Vdc is exceeded for 3s, the controller terminates the current process with error display. As long as the level is above 3.2Vdc, the washing chamber doors remain locked. Threshold monitoring: As long as the device is switched on.	L1	**Drain Valve:** Drain valve doesn't open. Activate valve in the service mode and verify activation/flow. Solenoid activates: Check drain boot, replace if faulty. Check voltage to coil: Check wiring & check power supply, fuses F11, F12. Check output LED on Control PCB: Replace Control PCB **Water valves:** Water valves not closing. Water flow during standby or with door open. Replace valve(s). **Level sensor:** Check voltage at transducer or input to control board. Empty level: 0.5Vdc, Working level: minimum 1.0Vdc, dynamic reading or no change in reading. Check the transducer hose for the presence of water (indicates a hole/leak in the hose). Check hose for kinks or pinched areas. Replace sensor | Replace sensor board | Check wiring | Check input to control board | Check power supply | Replace control board
151	Dosage 1 False	No dosing, or too high dosage. Flow Meter 1 does not detect required impulses. If a dosage has been programmed with Flow Meter 1 in the phase, at least 10 impulses of Flow Meter 1 must be counted within 1 minute during dosing with Motor (M21), and at least 50 impulses for every further 6s otherwise the controller terminates the current process with error display.		**Air Bubble in Chemical Line:** Properly prime line **Chemicals are empty:** Refill chemicals and properly prime the lines **Flow Meter:** Flow meter is not operating properly – replace **Air Balance:** Suction from chamber siphons chemicals causing the flow meter to move – Balance air system **Dosing pump:** Stuck on – replace pump | replace control board
152	Dosage 2 False	Dosing pump, Flow Meter 2		**See Error 151**
153	Dosage 3 False	Dosing pump, Flow Meter 3		**See Error 151**
154	Dosage 4 False	Dosing pump, Flow Meter 4		**See Error 151**

161	No Heat - Washing Chamber	Temperature sensor in the washing chamber detects no change during heating phase. If a minimum temperature change of 1°C is not detected during the heating phase in the washing chamber (NTC1) within the specified time period (3 min), or if during the holding phase the temperature is no longer reached for more than 3 minutes, the controller terminates the current process with error display. Threshold monitoring: During the heating and holding phase with water.	NTC1, NTC5	**Tank sensor:** During cycle, check display for change in temperature of wash water. If steam hoses hot: Check wiring to sensor, Replace faulty sensor, Check Control PCB **No heating. - Steam Valve:** If Steam valve doesn't open: Check wiring & Check 24Vac. **Supply and shut off valves:** Check with facilities maintenance for any steam outages Verify all steam supply valves are turned on. Check with facilities maintenance for any condensate system outages. Verify all condensate valves are open. Verify that there is a differential pressure across the steam supply and condensate return systems – correct facility problems **Electric Sump Heaters stuck on:** Check K16 contactor – replace, check wiring for poor connections **Drain Valve Leaks:** Clean/replace membrane **Air balance:** Pressure imbalanced caused by either too much suction from the exhaust or too much back pressure from the exhaust – Balance air system – Check exhaust flap not stuck open **Transformers:** Verify T1 and T2 operational **Fuses:** Check Fuses F1, F2, F9, F10 **Door Switches (DS & CS):** S1/K1 and/or S2/K2 is open – Verify switch operation, Door magnet integrity, - Replace door switch or magnet
162	No Heat - PW Tank	The temperature sensor in the PW tank detects no change of temperature during the heating phase. If a minimum temperature change of 1°C is not detected during the heating phase in the PW tank (NTC4) within a specified time period (5min), the controller terminates the current process with error display. Threshold monitoring: During the heating and holding phase	NTC4, SD	**Heating elements:** Verify K26 is operating properly, **DI Boiler Thermal Over temp:** Verify that R26 is not tripped, if tripped verify there is sufficient water in the DI tank and that SD input from the PW Float switch is operating properly **Tank Sensor:** During PW heating, check display for change in temperature of PW water. If steam hoses hot: Check wiring to sensor, Replace faulty sensor, Check Control PCB **Transformers:** Verify T1 and T2 operational

163	Water Too Hot	Temperature too high. Temperature 8°C higher than intended, and >45°C for pre- rinse function. Target temperature exceeded by 5°C within the washing steps (M1-4) and (M9). Termination criterion: If the target temperature of Sensor NTC1 is exceeded by 5°C during 1 minute in the course of a water step (M1-4, M9) after the filling process has been completed, the controller terminates the current process. If no temperature is entered (00 by default), the monitoring function is inactive and no error is triggered. A maximum temperature of 45°C is permitted in the cold pre-rinse function F1. If a water temperature of 45°C is exceeded, Error 163 "Water too hot" is likewise displayed and the process is terminated. Termination criterion: If "00°C" is entered for the temperature during a water step (M1-4, M9) and Function F1, and if a water temperature of 45°C, as measured by Sensor NTC1, is exceeded during one minute after the filling process has been completed, the controller terminates the current process.	NTC1	**Steam valve:** Steam Valve (Y16 for WD-250 Y stuck open – clean/repair/replace **Electric Sump Heaters stuck on:** Check K16 contactor – replace **Water utilities:** Verify that hot and cold water are not interchanged **Programming of recipe:** Verify that the program is calling for the proper medium for assigned function. For example F1M2 (Prewash + Warm Water) is going to cause this fault.
164	No Drying	The drying temperature is monitored. Unless "0°C" has been entered, a temperature of at least 80°C must be reached within 50s after the start of the step. Safety temperature limiter (STL) was triggered (red button).	NTC2	**Air Heaters:** Verify that air heating elements are operating properly K18 CAUTION: Do not turn on the electric heating elements unless you have proper air flow from the blowers moving across them **Air Heaters safety Pressure switch:** P18 must be closed in order for the heating element contactor K18 to receive control voltage. P18 is closed by sufficient pressure generated by the 2 blowers. Verify heating box is sealed and both blowers are operating. Replace switch if defective (stuck open) **Air Heater Thermal Over temp:** Reset F18 if tripped – Replace F18 if unable to reset **Air Temp Sensor:** no change in temperature display for NTC 2: Check wiring to sensors. Replace sensors. Check Control PCB. **Blowers:** Check Fuses F3, F4, F5 (20amp breaker), and contactor K18 for proper operation. Check capacitor for blowers, Possible for one blower to be defective and not both. **Transformers:** Verify T1 and T2 operational **Fuses:** Check Fuses F1, F2, F9, F10 **Door Switches (DS & CS):** S1/K1 and/or S2/K2 is open – Verify switch operation, Door magnet integrity, - Replace door switch or magnet

185	No DI tank	The input "DI Tank Code, SC" is open when reaching a program step with Utility M8.	SC	**Programming of recipe:** Verify that the program is calling for the proper medium for assigned function.
188	No Communication with I/O	No communication. In Configuration Module 2 “Digital Interface 1” is enabled for the error to be active.		**Fuse:** IPD (Independent process device - Accessory print panels) is blown – replace **24V system:** Short in the 24V system that is reducing supply voltage to the IPD board. Voltage should be >22Vac **Configuration:** If not I/O board present turn Digital interface off **Coding Switch on IPD:** Correct setting - 4
189	No Communication with IPD	No communication (IPD).		**Fuse:** IPD (Independent process device - Accessory print panels) is blown – replace **24V system:** Short in the 24V system that is reducing supply voltage to the IPD board. Voltage should be >22Vac **Coding Switch on IPD:** Correct setting - 2
190	No Communication with SPI Bus	General communication problem of data connections to controllers due to voltage breakdown.		**Fuse:** IPD (Independent process device - Accessory print panels) is blown – replace **24V system:** Short in the 24V system that is reducing supply voltage to the IPD board. Voltage should be >22Vac
191	Input Voltage Error	Supply voltage for ECU controller too low. (<22VAC)		**24V system:** With WDs - US voltage is 208VAC 3ph. BW has 4 transformers (2x230VAC & 2x 208VAC). The 208VAC transformers are required to maintain a low voltage >22VAC - above Alarm level. Common issue with WD250s and 84000 boards. Transformer should be part - 73999 (208VAC 50/60Hz - 24V 150VA) **Transformers:** Verify T1 and T2 operational
192	SC Test Error	The deviation of the current measurement result from calibration characteristics exceeds the specified tolerance limit.		
193	No Communication with RFID	There is a communication problem with the RFID (Radio Frequency Identification) -PCB.		**Fuse:** IPD (Independent process device - Accessory print panels) is blown – replace **24V system:** Short in the 24V system that is reducing input voltage to the IPD board.
194	No Transponder Reception	Failure to read transponder.		
195	Emergency Stop Loading side WD-290	Activating the Emergency Stop immediately interrupts the process.	S207	**DS Emergency stop:** DS Emergency stop switch is activated. Reset switch – If unable to reset switch replace switch
196	Emergency Stop Unloading side WD290	Activating the Emergency Stop immediately interrupts the process.	S208	**CS Emergency stop:** CS Emergency stop switch is activated. Reset switch – If unable to reset switch replace switch
300	Wash arm top 1	Wash arm 1 (Top) is jammed	WAS1L, W	**Wash Arm:** Inspect for obstructions. Verify arm is operating properly replace if necessary

301	Rack wash arm 2	Rack wash arm 2 is jammed	WAS2L-WAS10L,	**Wash Arm:** Inspect for obstructions. Verify arm is operating properly replace if necessary
302	Rack wash arm 3	Rack wash arm 3 is jammed	WAS2L-WAS10L,	**Wash Arm:** Inspect for obstructions. Verify arm is operating properly replace if necessary
303	Rack wash arm 4	Rack wash arm 4 is jammed	WAS2L-WAS10L,	**Wash Arm:** Inspect for obstructions. Verify arm is operating properly replace if necessary
304	Rack wash arm 5	Rack wash arm 5 is jammed	WAS2L-WAS10L,	**Wash Arm:** Inspect for obstructions. Verify arm is operating properly replace if necessary
305	Rack wash arm 6	Rack wash arm 6 is jammed	WAS2L-WAS10L,	**Wash Arm:** Inspect for obstructions. Verify arm is operating properly replace if necessary
306	Rack wash arm 7	Rack wash arm 7 is jammed	WAS2L-WAS10L,	**Wash Arm:** Inspect for obstructions. Verify arm is operating properly replace if necessary
307	Wash arm bottom 8	Wash arm 8 (bottom) is jammed	WAS11	**Wash Arm:** Inspect for obstructions. Verify arm is operating properly replace if necessary
		WD-250 will not turn on		**Hospital Power:** Verify there is 208V supplied to the machine, Check all wiring **Fuses:** Verify the following fuses are good: F1, F2, F9, F10 in High voltage cabinet, Verify fuses F1 and F2 are good on the main control board **DS Foil:** Verify DS foil IO button functioning and wiring is intact to main board **WD Disconnect:** Verify WD disconnect is on and voltage is present **Transformers:** Verify T1 and T2 operational